Title (en)

RAIL OF HIGH ABRASION RESISTANCE AND HIGH TENACITY HAVING PEARLITE METALLOGRAPHIC STRUCTURE AND METHOD OF MANUFACTURING THE SAME.

Title (de)

HOCHFESTE, ABRIEBSRESISTENTE SCHIENE MIT PERLITSTRUKTUR UND VERFAHREN ZU DEREN HERSTELLUNG.

Title (fr)

RAIL A RESISTANCE ELEVEE A L'ABRASION ET A HAUTE TENACITE POSSEDANT UNE STRUCTURE METALLOGRAPHIQUE PERLITIQUE ET PROCEDE DE PRODUCTION DUDIT RAIL.

Publication

EP 0685566 A4 19960327 (EN)

Application

EP 95902988 A 19941219

Priority

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- JP 24444194 A 19941007

Abstract (en)

[origin: EP0685566A1] This invention relates to a high-tenacity rail having a strength, an abrasion resistance, and a high carbon pearlite structure excellent in ductility and tenacity; and a method of manufacturing the same. A high-tenacity rail having elongation of not less than 12 % and a U-notch Charpy impact value of not less than 25 J/cm<2> obtained by forming fine pearlite blocks by a special rolling operation in steel of a high abrasion resistance containing 0.60-1.20 wt.% of C, 0.10-1.20 wt.% of Si and 0.40-1.50 wt.% of Mn, and one or not less than two kinds of elements out of Cr, Mo, V, Nb and Co as necessary; and a method of manufacturing the same. This invention enables the ductility and tenacity of a high carbon steel rail of a high abrasion resistance to be improved, and a rail of a high safety to be provided for railways in a cold district. <IMAGE>

IPC 1-7

C22C 38/00; C22C 38/30; C21D 8/00

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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